

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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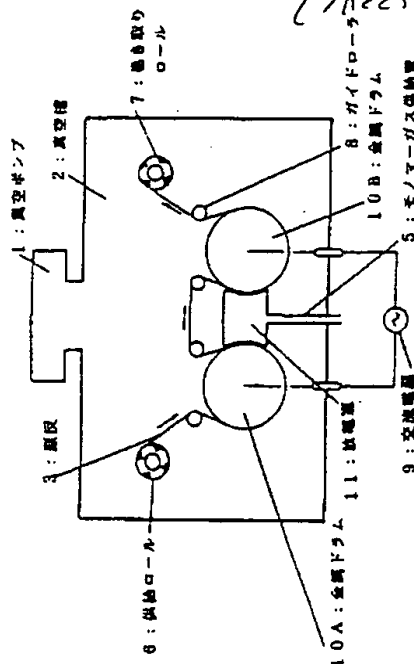
APPLICATION DATE : 13-12-89  
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : KUNIEDA TOSHIKI;

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TITLE : DEVICE FOR PRODUCING THIN FILM



97/33358 75/41

ABSTRACT : PURPOSE: To continuously form a stabilized-quality protective film by providing plural electrically insulated metallic drums, connecting an AC power source to the drums and providing a discharge chamber for supplying a gaseous monomer at the position in contact with an original sheet in the space between the drums.

CONSTITUTION: The electrically insulated metallic drums 10A and 10B are provided in a vacuum vessel 2, and an AC power source 9 is connected to the drums 10A and 10B. A discharge chamber 11 having a means 5 for supplying a gaseous monomer is provided at the position in contact with the raw sheet 3 in the space between the drums 10A and 10B. The vacuum vessel 2 is evacuated to about  $10^{-5}$  Torr by a vacuum pump 1, and the gaseous monomer is supplied to the discharge chamber 11 through the supply pipe 5 to keep the chamber at about  $10^{-2}$ - $10^0$  Torr. An AC voltage is then impressed between the drums 10A and 10B to produce plasma, and a protective film is formed on the traveling sheet 3. As a result, a thin and dense film is uniformly formed at a high rate.

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